

IV. *Observationes Cælestes Multifariæ inter Menses*
Novemb. 1727, & Novemb. 1728,
Pekini in SINIS, habitæ & ad Rev.
P. Joannem Baptistam Carbone, Soc. Jcl.
transmissæ. Ex eadem Epistola descriptæ.

I. *Immerfiones, & Emerfiones Satellitum Jovis*
observatæ Pekini in Sinis.

SATELL. I.

| | | D. | H. | ' | " | |
|--------------|------|----|----|----|----|-------|
| Immerfiones. | Nov. | 2 | 10 | 21 | 10 | Vesp. |
| | | 10 | 0 | 14 | 26 | Mane. |
| | | 11 | 6 | 44 | 10 | Vesp. |
| | Dec. | 3 | 2 | 30 | 42 | Mane. |
| Emerfiones. | | 10 | 4 | 22 | 5 | Mane. |
| | | 11 | 10 | 50 | 0 | Vesp. |
| | | 13 | 5 | 17 | 50 | Vesp. |
| | | 19 | 0 | 40 | 44 | Mane. |
| | | 20 | 7 | 8 | 20 | Vesp. |
| | | 26 | 2 | 32 | 33 | Mane. |
| | | 27 | 9 | 0 | 0 | Vesp. |

Jan.

| (367) | | | | | | | |
|---------|--------------|------|----|----|-------|-------|-------|
| | | D. | H. | ' | " | | |
| 1728. | Jan. | 3 | 10 | 51 | 50 | Vesp. | |
| | | 5 | 5 | 20 | 0 | Vesp. | |
| | | 11 | 0 | 45 | 18 | Mane. | |
| | | 12 | 7 | 13 | 27 | Vesp. | |
| | | 19 | 9 | 5 | 40 | Vesp. | |
| | Emerfiones. | 26 | 0 | 59 | 0 | Vesp. | |
| | | 28 | 5 | 27 | 20 | Vesp. | |
| | | Feb. | 4 | 7 | 22 | 0 | Vesp. |
| | | | 11 | 9 | 16 | 40 | Vesp. |
| | | | 18 | 11 | 12 | 30 | Vesp. |
| | Mart. | 20 | 5 | 41 | 50 | Vesp. | |
| | | 21 | 7 | 58 | 55 | Vesp. | |
| | | 20 | 1 | 12 | 12 | Mane. | |
| | Immerfiones. | Oft. | 4 | 5 | 6 | 0 | Mane. |
| | | | 13 | 1 | 30 | 0 | Mane. |
| 20 | | 3 | 26 | 15 | Mane. | | |
| 27 | | 5 | 19 | 30 | Mane. | | |

S A T E L L. II.

| | | | | | | | |
|---------------|------|------|----|----|----|-------|-------|
| Immerf. 1727. | Nov. | 6 | 4 | 5 | 40 | Mane. | |
| | Dec. | 1 | 3 | 40 | 45 | Mane. | |
| | | 4 | 5 | 2 | 0 | Vesp. | |
| Emerfiones. | { | 11 | 7 | 37 | 42 | Vesp. | |
| | | 18 | 10 | 11 | 13 | Vesp. | |
| | | 26 | 0 | 47 | 39 | Mane. | |
| 1728. | { | Jan. | 5 | 4 | 42 | 0 | Vesp. |
| | | 12 | 7 | 16 | 16 | Vesp. | |
| Emerfiones. | { | 19 | 9 | 51 | 0 | Vesp. | |
| | | Feb. | 13 | 7 | 3 | 45 | Vesp. |
| | | 20 | 9 | 46 | 0 | Vesp. | |
| Immerfio. | Oct. | 30 | 3 | 34 | 10 | Mane. | |

S A T E L L. III.

| | 1727. | D. | H. | ' | " | |
|--------------|-----------|----------|----|----|----|-------|
| Incipit | { Nov. | 21 | 7 | 57 | 0 | Vesp. |
| emergere | | 28 | 11 | 53 | 0 | Vesp. |
| 1728. | | | | | | |
| Immerf. tot. | Jan. 3 | | 5 | 43 | 40 | Vesp. |
| Emerf. prima | | | 7 | 42 | 0 | Vesp. |
| Immerf. tot. | 10 | | 9 | 42 | 52 | Vesp. |
| Emerf. prima | | | 11 | 42 | 20 | Vesp. |
| Immerfio | { Feb. 22 | 9 | 42 | 30 | | Vesp. |
| totalis. | | 2 Oct. 9 | 6 | 6 | 30 | Mane. |

II. *Observatio Eclipsis Lunæ die 19 Aug. 1728, habita Pekini in Observatorio publico.**Horol. Corr.*

| | | | |
|----|----|----|---|
| H. | ' | " | Non multo ante Eclipsim dimensa diameter Lunæ erat 30' 50". |
| 10 | 54 | 0 | Penumbra jam inficiebat partes Lunæ primo inumbrandas. |
| 11 | 2 | 0 | Initium Eclipsis paulo infra Cleostratum. |
| | 13 | 0 | Umbra attingit Aristarchum. |
| | 14 | 30 | Obtextit totum. |
| | 15 | 20 | Attingit Platonem. |
| | 16 | 50 | Obtextit totum. |
| | 22 | 20 | Attingit Galilæum & Timocharim. |
| | 23 | 20 | Pitheam. |
| | 26 | 30 | Keplerum. |
| | 27 | 30 | Aristillum. |
| | 31 | 30 | Hevelium, Copernicum, & Endymionem fere simul. |
| | 36 | 20 | Ricciolum. |
| | 38 | 15 | Possidonium. |
| | 40 | 10 | Grimaldum, & Mercurium. |
| | 41 | 40 | Manilium. |

Mene.

| | | | |
|----|----|----|---|
| H. | ' | " | |
| II | 43 | 40 | Menelaum. |
| | 47 | 0 | Plinium, & Geminum. |
| | 52 | 0 | Umbra ad centrum Lunæ, obteſto Grimaldo toto. |
| | 54 | 20 | Attingit mareCrim- |
| | 56 | 40 | Ariadæum [ſium} Grimaldi apice au- |
| | 57 | 0 | Proclum } ſtrali hærente ad |
| | | | } marginem umbræ. |
| 12 | 0 | 0 | Culminante Luna recta per medium Ty- |
| | | | chonem tendens inter Munofium, & |
| | | | Profatium ad Copernicum coincidit |
| | | | cum plano Meridiani. |
| | 2 | 30 | Umbra attingit Promontorium } Lente |
| | | | acutum, } admo- |
| | 4 | 30 | Cenforinum & Tarantium, } dum e- |
| | 6 | 0 | MareCriſium totum obteſtum, } mergen- |
| | 15 | 30 | Umbra attingitS.Theophilum, } te Gri- |
| | 16 | 0 | S. Cyrillum, } maldo. |
| | 21 | 30 | Langrenium. Grimaldo integre emerſo. |
| | 25 | 15 | S. Catharinam, Ricciolo toto reſeſto. |
| | 31 | 0 | Circa medium Eclipſis micrometro di- |
| | | | menſa quantitas obſcurationis erat |
| | | | Sinice digit. 6½ ferme, five more Eu- |
| | | | ropæo digit. 7¼. |
| 12 | 34 | 0 | Emerſit Hevelius totus. |
| | 36 | 0 | Umbra ad Fracaſtorium. |
| | 43 | 0 | Galilæus |
| | 46 | 30 | Lansbergius } integre deſeſti. |
| | 52 | 0 | Keplerus } |
| 13 | 1 | 0 | Ariſtarchus } |
| | 2 | 0 | Copernicus incipit emergere. |
| | 5 | 0 | Totus deſegitur. |
| | 10 | 0 | Margo umbræ per centrum Lunæ. |
| | 11 | 30 | Pitheas emerſit. |
| | 15 | 0 | Eratoſthenes & S. Cyrillus deſeſti. |

| H. | ' | " | |
|----|----|----|--|
| 13 | 20 | 0 | Timocharis & S. Theophilus detecti. |
| | 22 | 20 | Ariadæus |
| | 25 | 0 | Manilius |
| | 29 | 30 | Aristillus |
| | 32 | 0 | Plato |
| | 33 | 0 | Censorinus |
| | 34 | 0 | Promontorium acutum. |
| | 38 | 0 | Plinius, & Langrenius integrè detecti. |
| 14 | 0 | 0 | Finis Eclipsis proximè Berofum. |

In fine Eclipsis diameter Lunæ inventa est 30' 38".

Durante Eclipsi sæpius addensati vapores turbabant faciem Lunæ, ut ejus maculæ, & umbræ margo non satis distinctè possent discerni; maxime id accidit ante, & circa finem Eclipsis.

III. *Aliquot Occultationes fixarum per Lunam, observatæ Pekini, A. C. 1728.*

Januar. die 2 Mane Luna occultavit Stellam ϵ *Leonis* Immerfio erat 2^h 35' 20" in recta per Tychonem & S. Theophilum Emerfio fuit 3^h 20' 40" in recta per S. Theophilum & Eratosthenem.

Die 22 Summo Mane Luna transivit per *Pleiadas*. 1^h 0' 25" immerfit *Taygeta* post Lunam, in recta cum Bullialdo, & Abulfeda.

1^h 9' 30" *Celano*, à Cuspide cornu australi pauculis secundis distans in recta ex Tychone per Clavium, mox disparuit nimia fluctuatione lucidi limbi Lunæ absorpta.

1^h 18' 24" immerfit *Sterope* in recta cum Bullialdo, & Fracastore.

1^h 25' 56" *Maia* in recta ex Tychone per Longomontanum. Emerfio nullius videri poterat ob nimiam fluctuationem lucis Lunæ inter vapores.

Die 29 Vesf. Luna obtexit Stellam τ *Leonis* Immerfio

fio fuit $9^h 27' 53''$ in recta cum Galilæo, & Lansbergio. Emerfio verò $10^h 24' 17''$ in recta cum Macrobio & Sofigene.

Mart. die 21 Vesp. occultavit Luna Stellam γ *Canceri*. Immerfio fuit $8^h 14'$ in recta per Copernicum & Boreum marginem Langreni. Emerfio fuit neglecta.

Maii die 24 Summo Mane $1^h 51' 30''$ Luna abforbuit Stellam τ *Scorpionis* proxime Byrgium. Emerfio non fuit observata.

Sept. die 14 Vesp. Luna occultavit Stellam η *Capricorni*. Immerfio fuit $8^h 11' 20''$ inter Seleucum & Cardanum. Emerfio $9^h 37' 30''$ paulo infra Langrenum.

Die 19 Vesp. Luna obtexit Stellam δ *Pifcium*. Immerfio fuit $8^h 43' 45''$ in recta per Tychonem & Langrenum. Emerfio autem $9^h 5' 15''$ in recta cum Tychone & Keplero.

Oct. die 28 Manè Luna occultavit Regulum, feu Cor *Leonis* Immerfio fuit $1^h 39' 50''$ in recta per Aristarchum & Gassendum. Emerfio $2^h 11' 15''$ in recta per Aristarchum & Cardanum.

V. *An Account of the Veins and Arteries of Leaves.*
By Frank Nicholls, M. D. *Præl. Anat. Oxon.*
F. R. S.

BY a Letter from Dr. *Fuller* in *Holland* to the President, and communicated about *October* last, the Society was informed, that the ingenious Professor *Ruyfch* had observed something in the dissecting of Leaves analogous to the Veins and Arteries of Animals; but without explaining in what Manner these different Vessels were disposed, or by what Means they may be distinguished from each other.

When